

Name _____ Period _____

Skill 26.02 Problem 1

Write the chemical symbol to represent the following under normal laboratory conditions:

Silver, mercury, bromine, hydrogen, calcium

Skill 26.02 Problem 2

Write the reaction for each of following laboratory situations

(a) A piece of sodium (Na) metal is placed in water (H_2O) and produces hydrogen (H_2) gas and sodium hydroxide (NaOH)

(b) When zinc (Zn) metal is added to an aqueous solution of copper chloride (CuCl_2), solid copper (Cu) precipitates and aqueous zinc chloride (ZnCl_2) is produced.

(c) When solid carbon (C) combusts in a limited supply of oxygen (O_2), carbon monoxide (CO) gas is produced.

(d) When methane gas (CH_4) is burned, carbon dioxide (CO_2) gas and water (H_2O) vapor are produced.

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Skill 26.02 Problem 3

For each reaction, write a suitable word equation
(a) (Barium Hydroxide) $\text{Ba}(\text{OH})_2(s)$ + (Silver Nitrate) $\text{AgNO}_3(aq) \rightarrow$ (Barium Nitrate) $\text{Ba}(\text{NO}_3)_2(aq)$ + (Silver Hydroxide) $\text{AgOH}(s)$
(b) (Sodium) $\text{Na}(s)$ + (water) $\text{H}_2\text{O}(l) \rightarrow$ (Sodium Hydroxide) $\text{NaOH}(aq)$ + (Hydrogen) $\text{H}_2(g)$